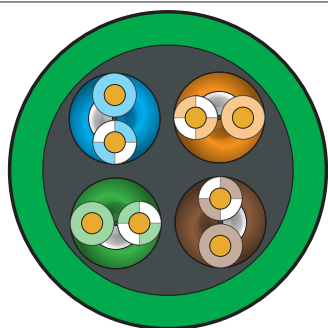


Cat6a Industrial Ethernet



H805704-1 Cable Specifications

		Part Number	Wire/Cable Type	Flexibility	Minimum Cut Length (ft)*	Approximate Weight (lb/ft)	Price Per Foot
		H805704-1	Cat6a industrial Ethernet	Flexible	20	0.03	\$-6gle:
Physical Properties							
Conductor Gauge		24 AWG	Conductor Stranding		7-stranded tinned copper		
Conductor Material		Tinned copper	Conductor Insulation Wall Thickness		0.013 in, nominal		
Conductor Assembly		4 twisted pairs	Bare Conductor Diameter		0.024 in, nominal		
Color Code	Pair 1	Blue, White	Insulated Conductor Diameter		0.050 in, nominal		
	Pair 2	Orange, White	Twisted Conductor Diameter		N/A		
	Pair 3	Green, White	Overall Cable Diameter		0.343 in, nominal		
	Pair 4	Brown, White	Jacket Color		Green		
Voltage Rating		1000V	Jacket Thickness		0.027 in, nominal		
Temperature Rating		-10 to 70 °C (14 to 158 °F)	Jacket Material		PVC		
Plenum		No	Sunlight Resistant		No		
Shield		Individual aluminum foil with overall aluminum foil and tinned copper braid	Oil Resistance		Yes		
Drain		No	Flame Retardant		Yes		
Conductor Insulation Material		Foam Polyethylene	Sample Print Legend		(SEQUENTIAL FOOTAGE) HELUKAT 500S INDUSTRIAL ETHERNET SF/FTP 4x2xAWG24/7 PVC 500MHz / 805704 * c(UL)us E312184 CM 75C 015813018168 DF CE		
Minimum Bend Radius		Moving: 2.74in Fixed: 1.72in					
Electrical Characteristics (for 100 meters of cable)							
Impedance		100 Ω ± 15 Ω	UL Classification		(cULus) Type CM		
Capacitance		15.2 pF/ft	Approvals**		cULus, CSA, CE, RoHS		
Resistance, Max.		26.7 Ω DC per 1000ft	Attenuation Crosstalk Ratio, Far End (ACRF)		1 ≤ f ≤ 500 MHz: 68 - 20 LOG10 (f/100) dB MIN		
Dielectric Withstanding, Min.		3000V RMS	Insertion Loss		1 ≤ f ≤ 500 MHz: 2,73 x √f + 0.01365 x (f) + 0.375/√f dB MAX		
Return Loss		1 ≤ f < 10 MHz: 20 + 5 LOG10 (f) dB MIN 10 ≤ f < 20 MHz: 25 dB MIN 20 ≤ f ≤ 500 MHz: 25 - 8,6 LOG10 (f/20) dB MIN	Power Sum Attenuation to Crosstalk Ratio, Far End (PSACRF)		1 ≤ f ≤ 500 MHz: 65 - 20 LOG10 (f/100) dB MIN		
Near End Crosstalk (NEXT)		1 ≤ f ≤ 500 MHz: 75,3 - 15 LOG10 (f/100) dB MIN	Cross Section				
Power Sum Near End Crosstalk (PSNEXT)		1 ≤ f ≤ 500 MHz: 72,3 - 15 LOG10 (f/100) dB MIN					
TCL		N/A					
ELTCTL		N/A					
Velocity of Propagation		0.75					
Delay		4 ≤ f ≤ 500 MHz: 534 + 36/√f ns Max					
Delay Skew		4 ≤ f ≤ 500 MHz: Max 45ns					

* See web store www.AutomationDirect.com for maximum cut lengths** To obtain the most current agency approval information, see the Agency Approval Checklist section on the part number's web page at www.AutomationDirect.com

Please Note: Our prices on Ethernet Cable are closely tied to the market price for copper. This allows us to offer the best savings possible if conditions are favorable; however, it also means that our prices may increase if market conditions warrant.